



Office of River Protection

Hanford Site

Agency Update to Hanford Advisory Board

March 31, 2011

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Acting Manager



Office of River Protection



Agenda

✓ ORP Projects

- Tank Farms
- WTP Operational Start-up Basis
- Integration
- Waste Treatment Plant (WTP)

✓ Near Term Focus



Tank Farms Recent Accomplishments

- ✓ New Pump in C-104
- ✓ Installation of C-107 large riser named “Project of the Year”
- ✓ Tank integrity inspections completed ahead of schedule
- ✓ Interim Stabilization Consent Decree closed
- ✓ WRPS VPP Merit Award
- ✓ Completing Recovery Act work successfully within cost and schedule
 - ✓ Confirmed by OIG audit
- ✓ CD-0 for Supplemental Treatment, Secondary Waste Treatment, and Interim Hanford Facility Storage





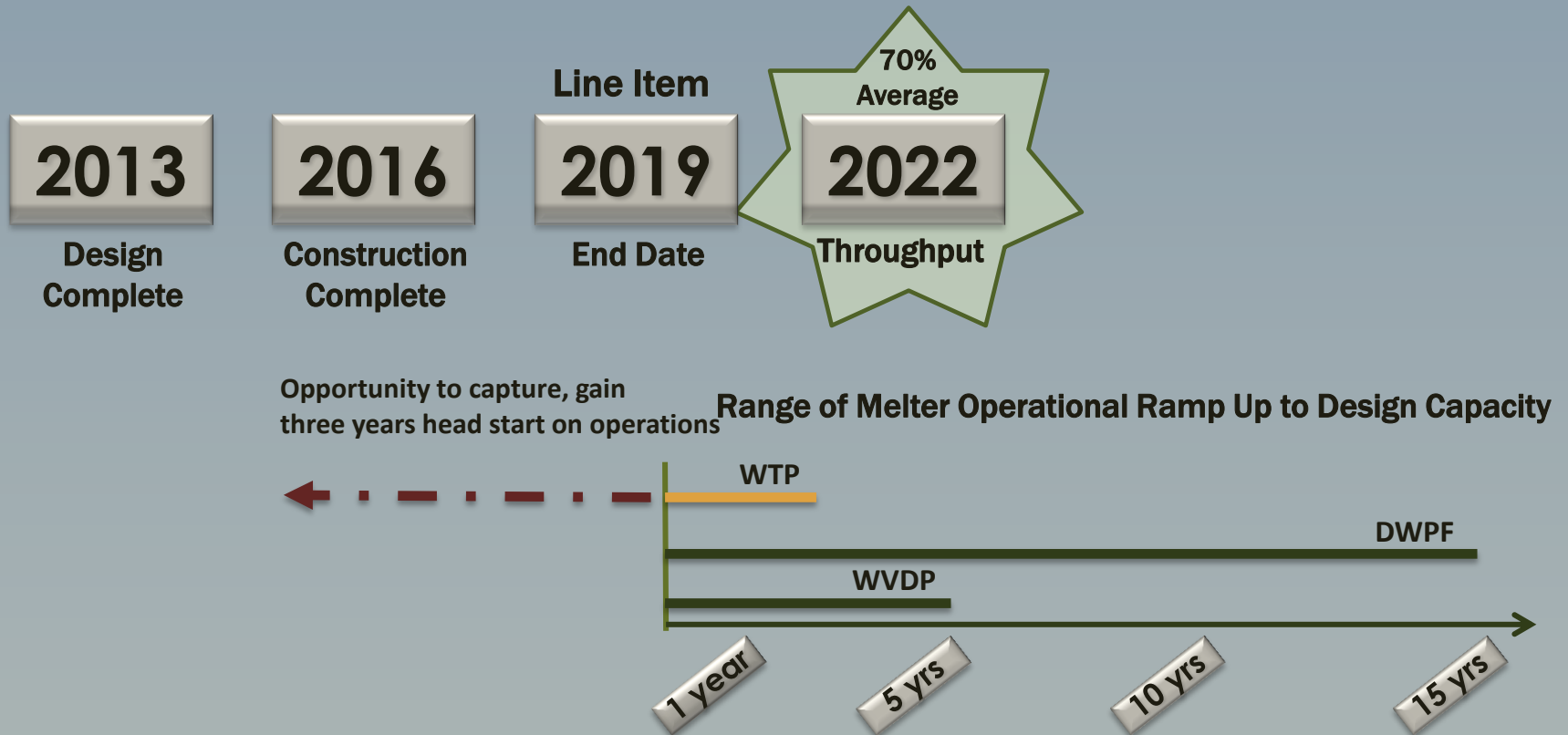
2011 Field Work - Retrieval and Closure

- **C-111** – Bulk retrieval completion
- **C-104** – Obstruction removal/ retrieval completion
- **C-107** – Dome cut / large-riser installation; MARS installation and testing; retrieval startup
- **C-108** – Hard heel removal/chemical dissolution
- **C-110** – Analytical work/selection of hard heel removal method.
- **C-112** –Construction for fall 2011 retrieval
- Pre-retrieval activities at C-101, 102, 105
- SGE in BX/BY
- C Farm closure work
- Interim Barrier in SX Farm – Design completion/basin construction



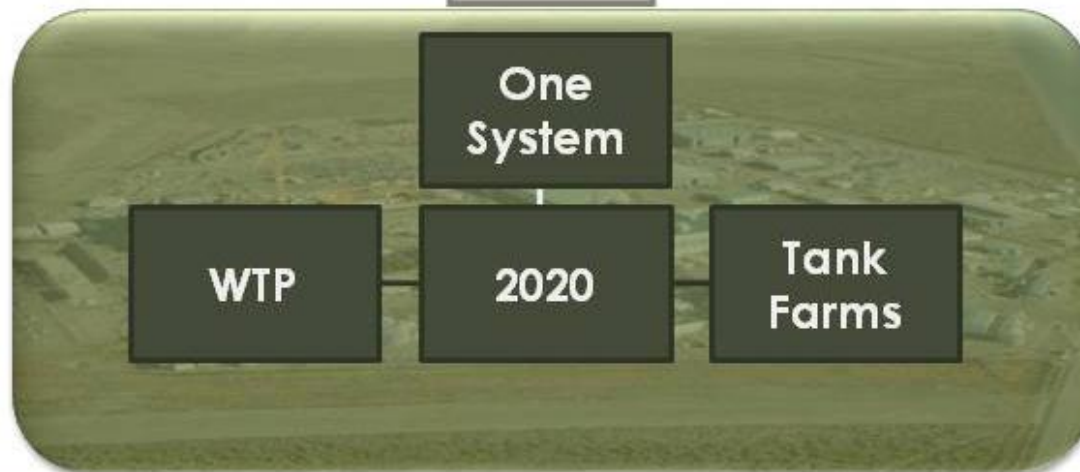
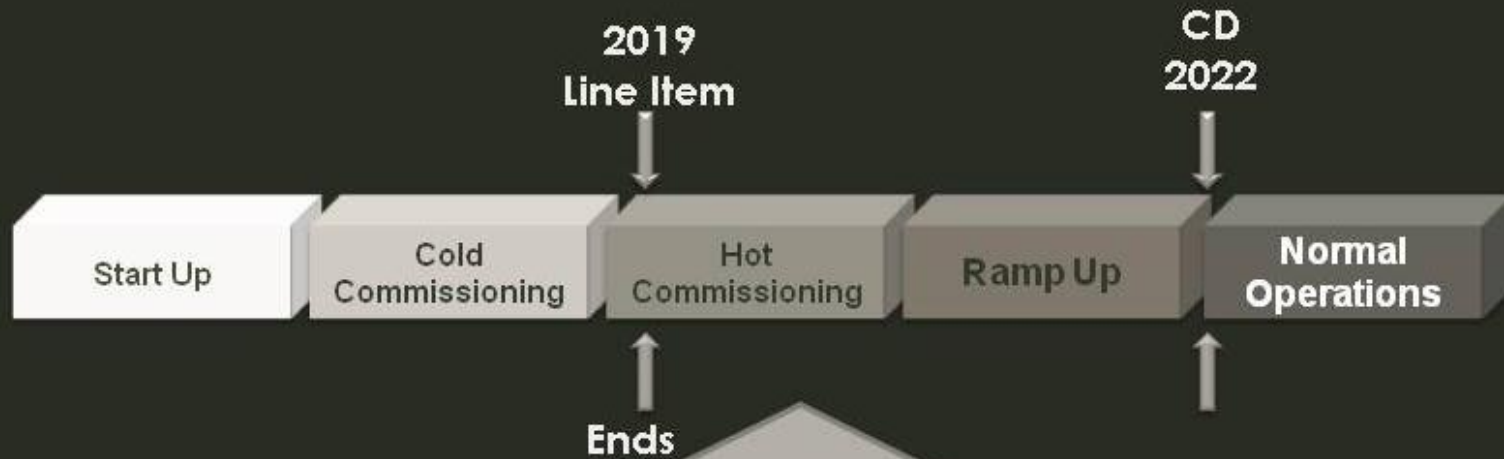
WTP Operational Start-Up Basis

WTP Operational Start-Up Basis



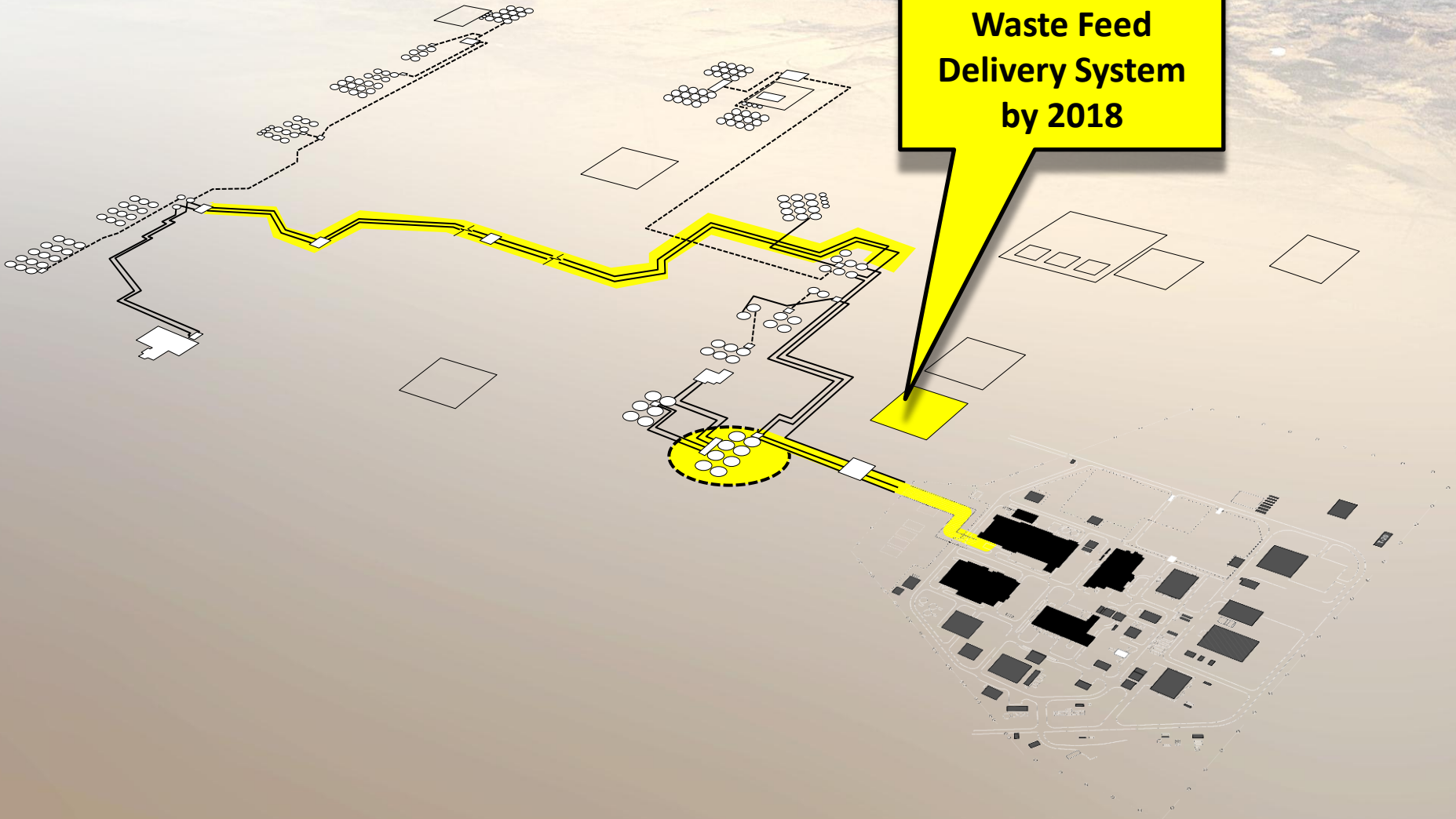
Integration Into One System

WTP Functional Integration Strategy



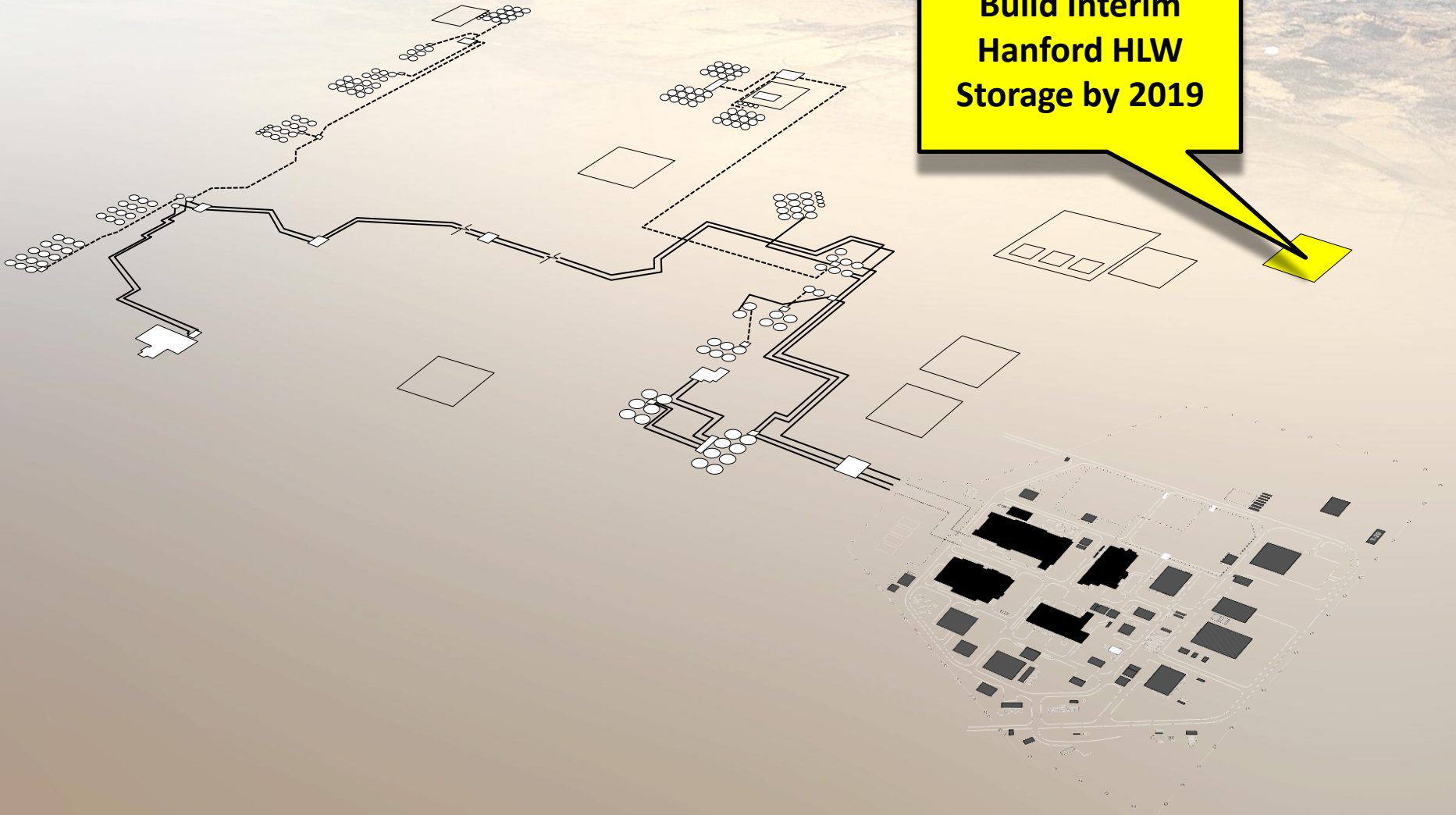
Six One-System Projects

**Create
Waste Feed
Delivery System
by 2018**



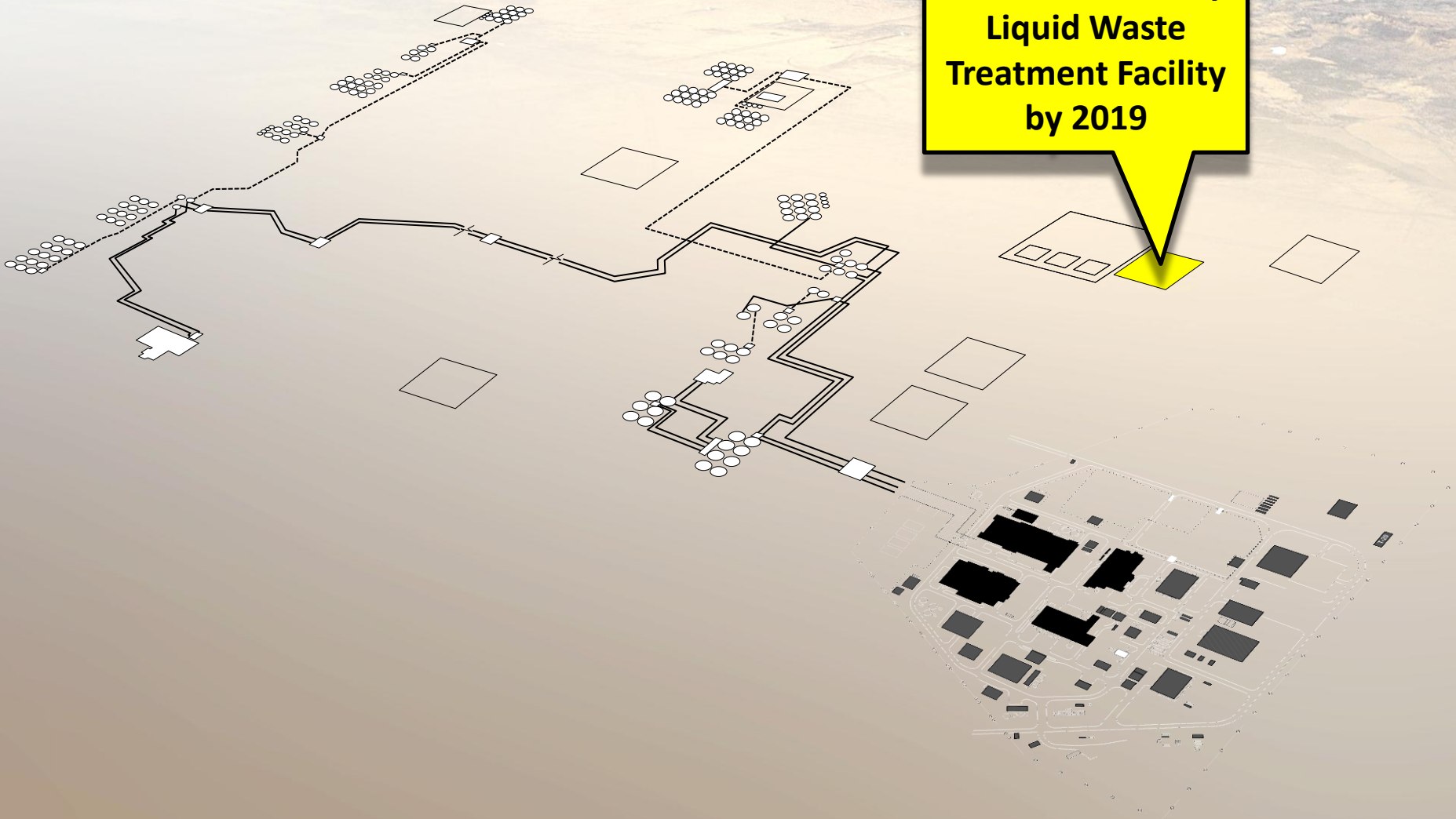
Six One-System Projects

**Build Interim
Hanford HLW
Storage by 2019**



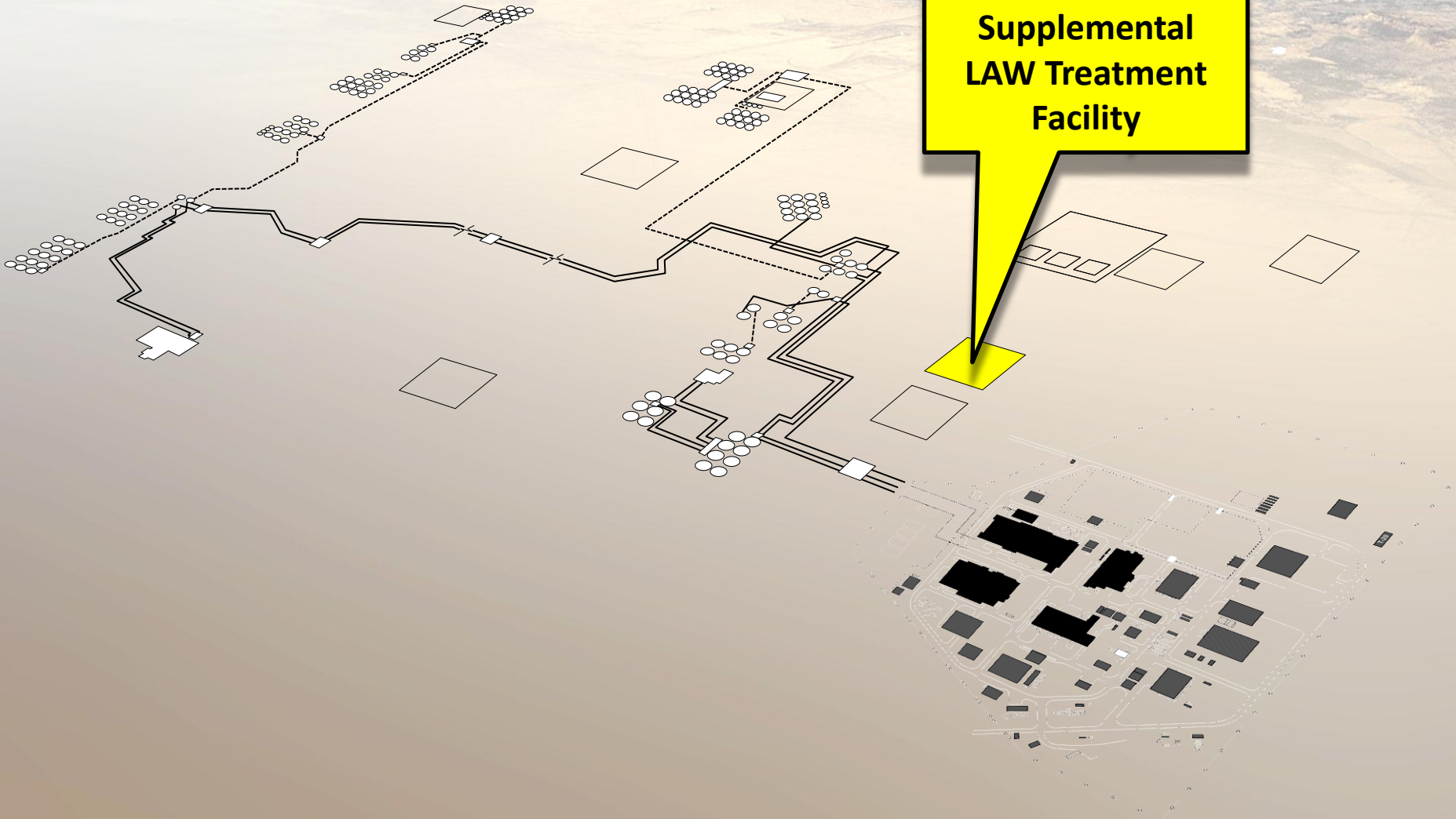
Six One-System Projects

**Build a Secondary
Liquid Waste
Treatment Facility
by 2019**



Six One-System Projects

**Build a
Supplemental
LAW Treatment
Facility**



Infrastructure Baseline Upgrades Through 2016

SY Farm

2008- Valve Pit Upgrades
2011- Electrical Upgrades
2011- Removing Transfer Lines
2016 Baseline- New Exhausters
2016 Baseline- Transfer Line Upgrades

242-A Evaporator

2011- Upgrades
2016 Baseline- Upgrades Continue

AY Farm

2016 Baseline- New Exhauster
2016 Baseline- Mixer Pumps Deployed

AN Farm

2008- Valve Pit Upgrades
2008- Cleanout Box Isolation
2011- Valve Upgrades
2016- Baseline – Mixer Pump Upgrades

AZ Farm

2008- New Valve Pit
2011- Control System Upgrade
2011- New Condensate Line

AW Farm

2008- Valve Pit Upgrades
2008- Cleanout Box Isolation
2011- Valve Upgrades
2016 Baseline- Upgrades Complete
2016 Baseline- Mixer Pump Upgrades

AP Farm

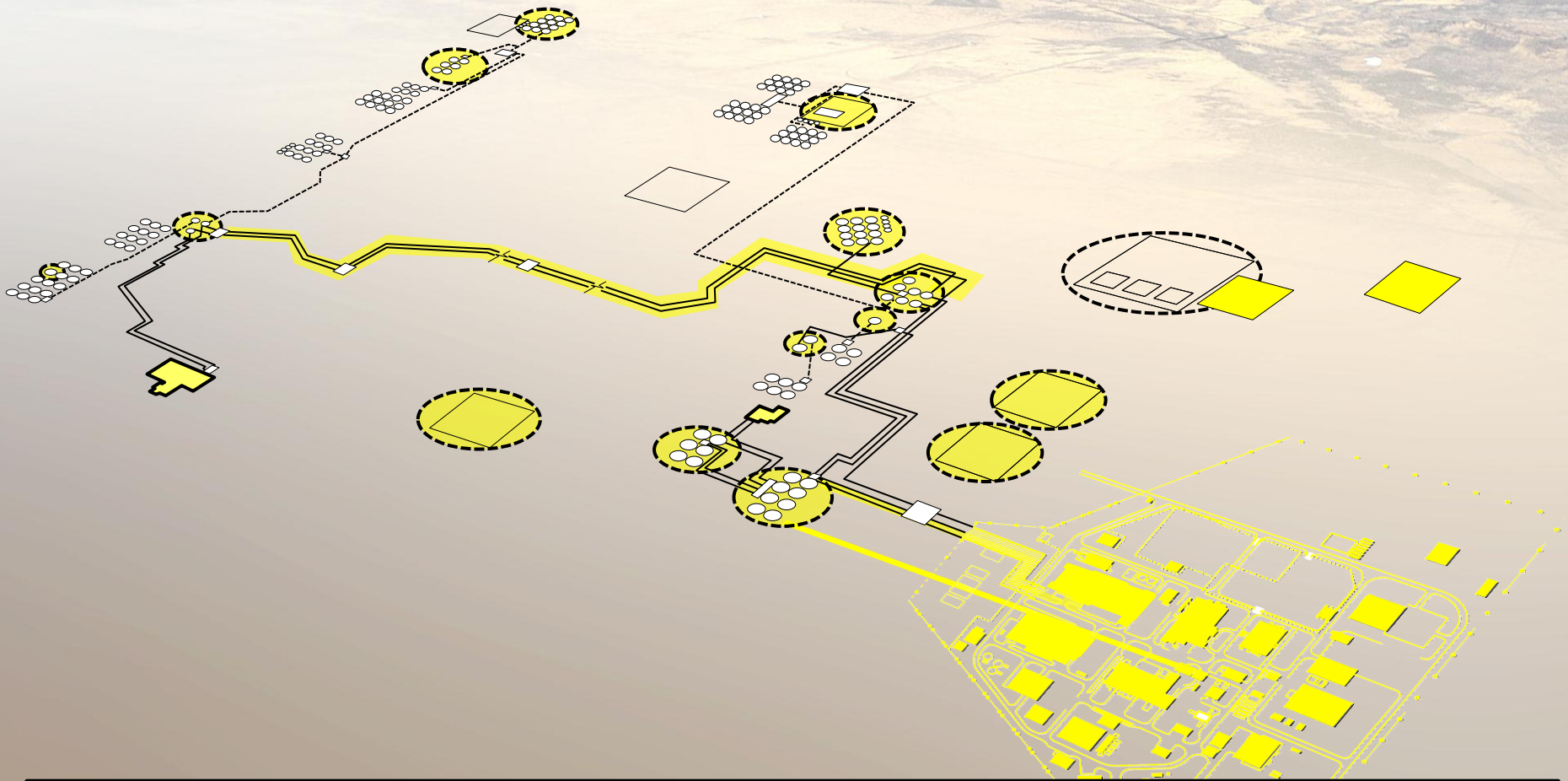
2011- Valve Upgrades
2016 Baseline- Operating Level Increases Complete
2016 Baseline- New Exhausters

222-S Laboratory

2011- Upgrades
2016 Baseline-
Ongoing Renovations and upgrades



TOC Work Scope Through 2019



2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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WTP Recent Accomplishments

- ✓ Overall project is 58% complete
- ✓ Pretreatment Facility begins fourth tier of structural steel
- ✓ Construction Project Review in May
- ✓ Air-Filtration duct installed at HLW Facility





Near Term Focus

- **ORP Manager**
- **Tank Farms**
 - MARS deployment
 - Finish strong on ARRA
 - WMA-C Performance Assessment
- **Draft Tank Closure and Waste Management Environmental Impact Statement**
- **Integrate Tank Farms and WTP to prepare for operations**
- **WTP**
 - Complete design
 - WTP facilities turnover start in 2012



Ways to Stay Involved

- www.hanford.gov/orp
- Join our e-newsletter
- Social media
- Call Pamela McCann
(509) 376-7663

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Project Online!***



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